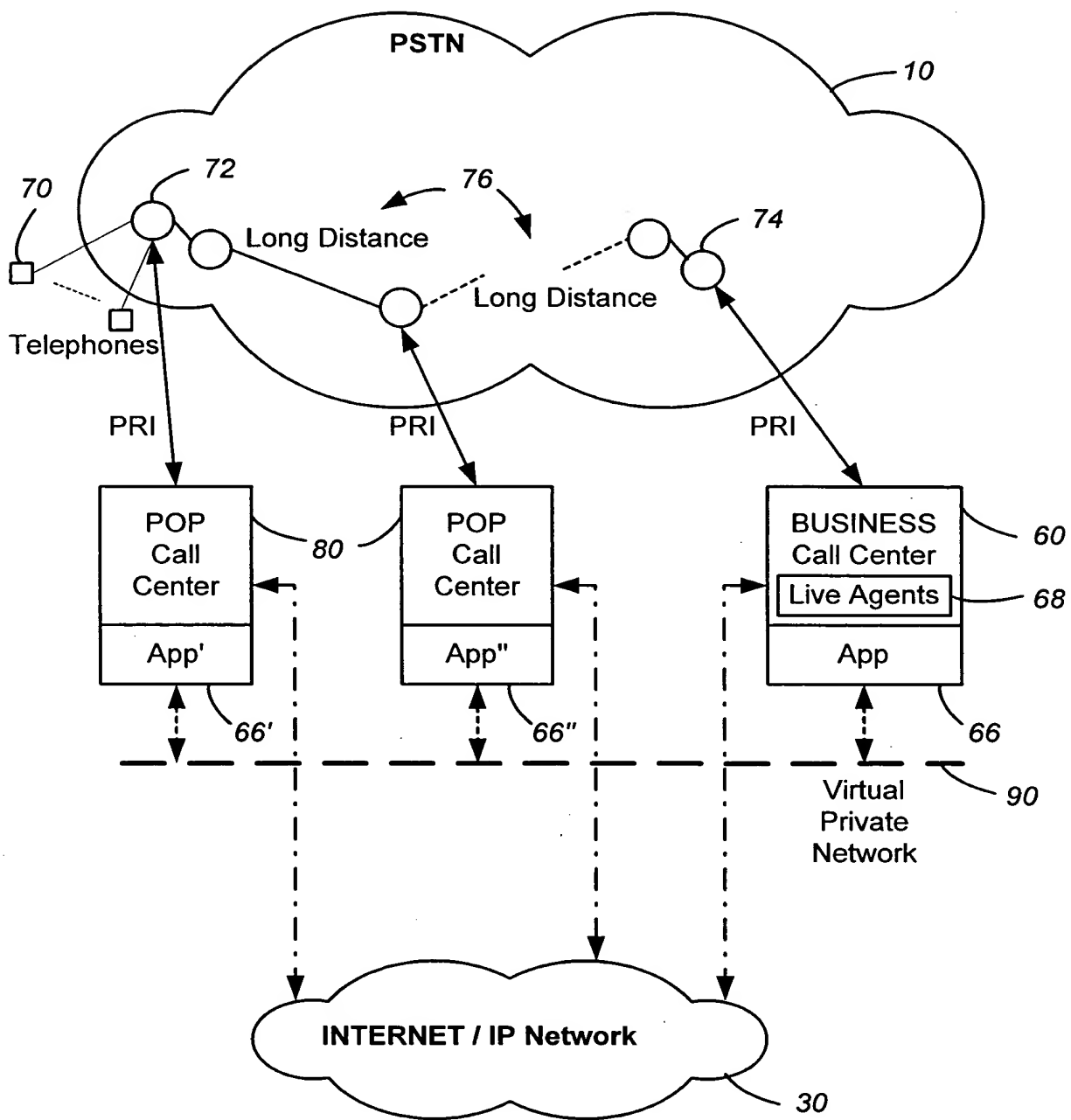
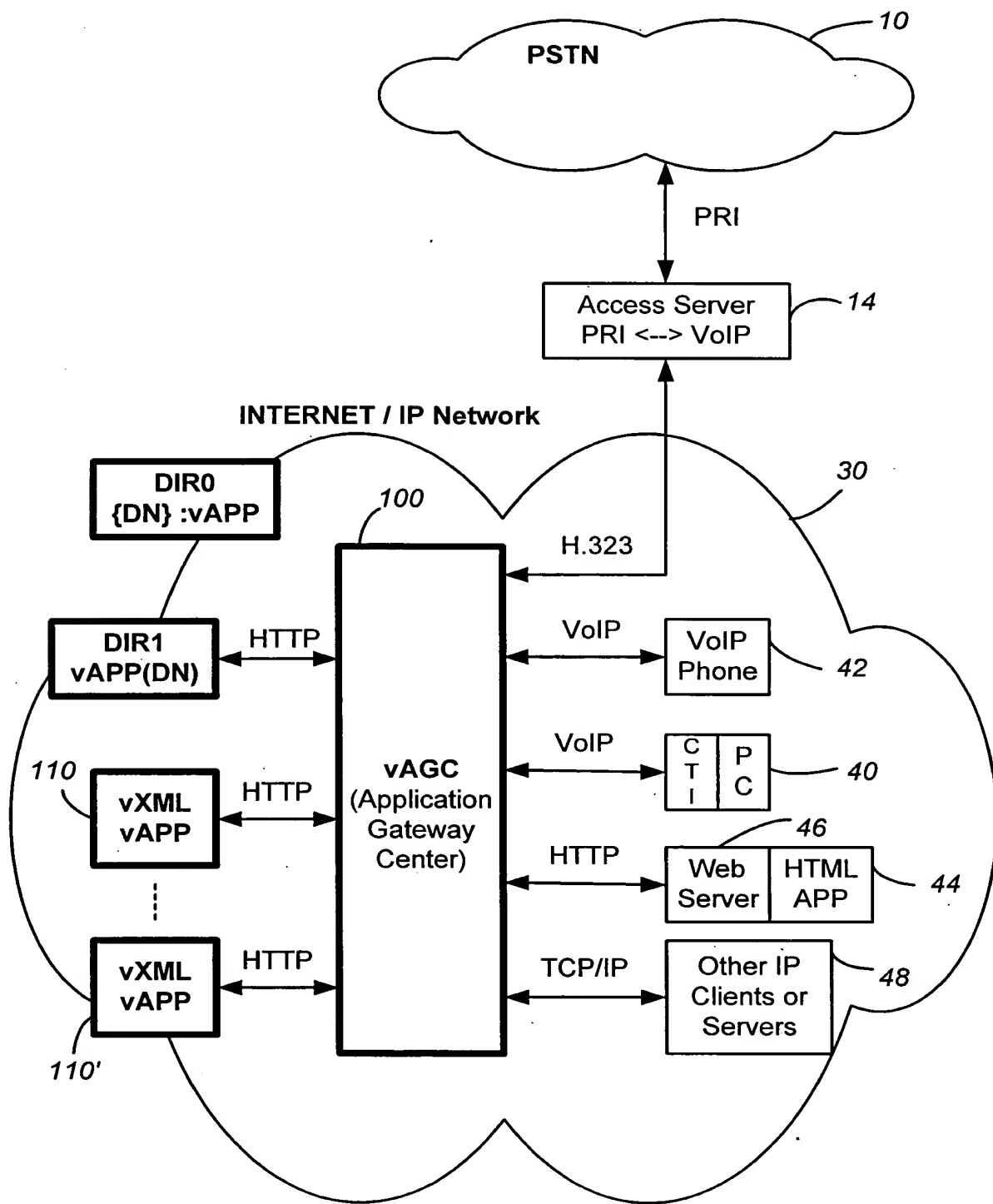


**FIG. 1A** (Prior Art)

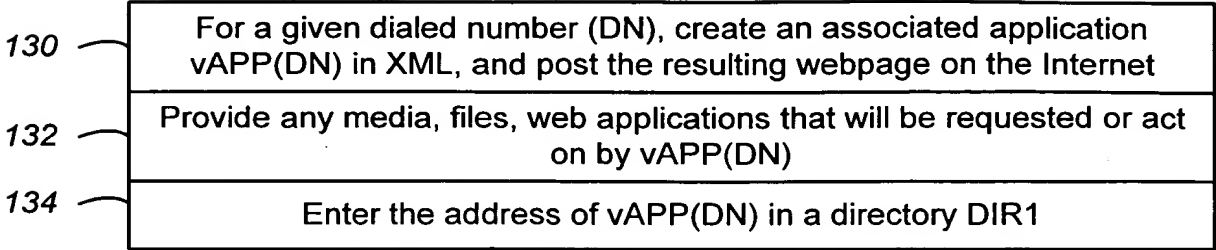


**FIG. 1B** (Prior Art)



**FIG. 2**

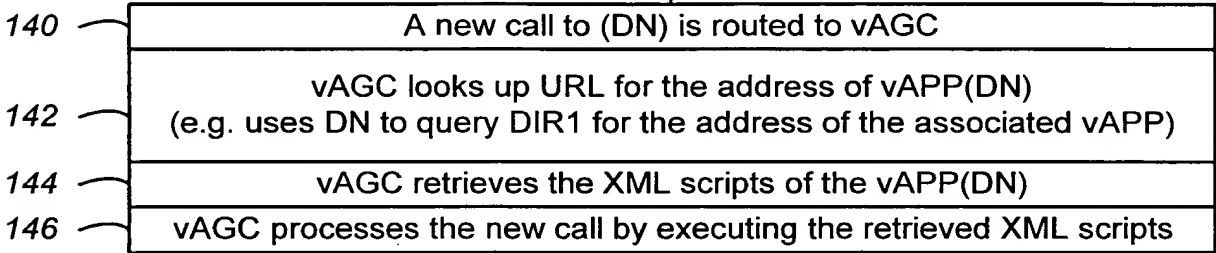
**PROVISIONING**



Call(DN)

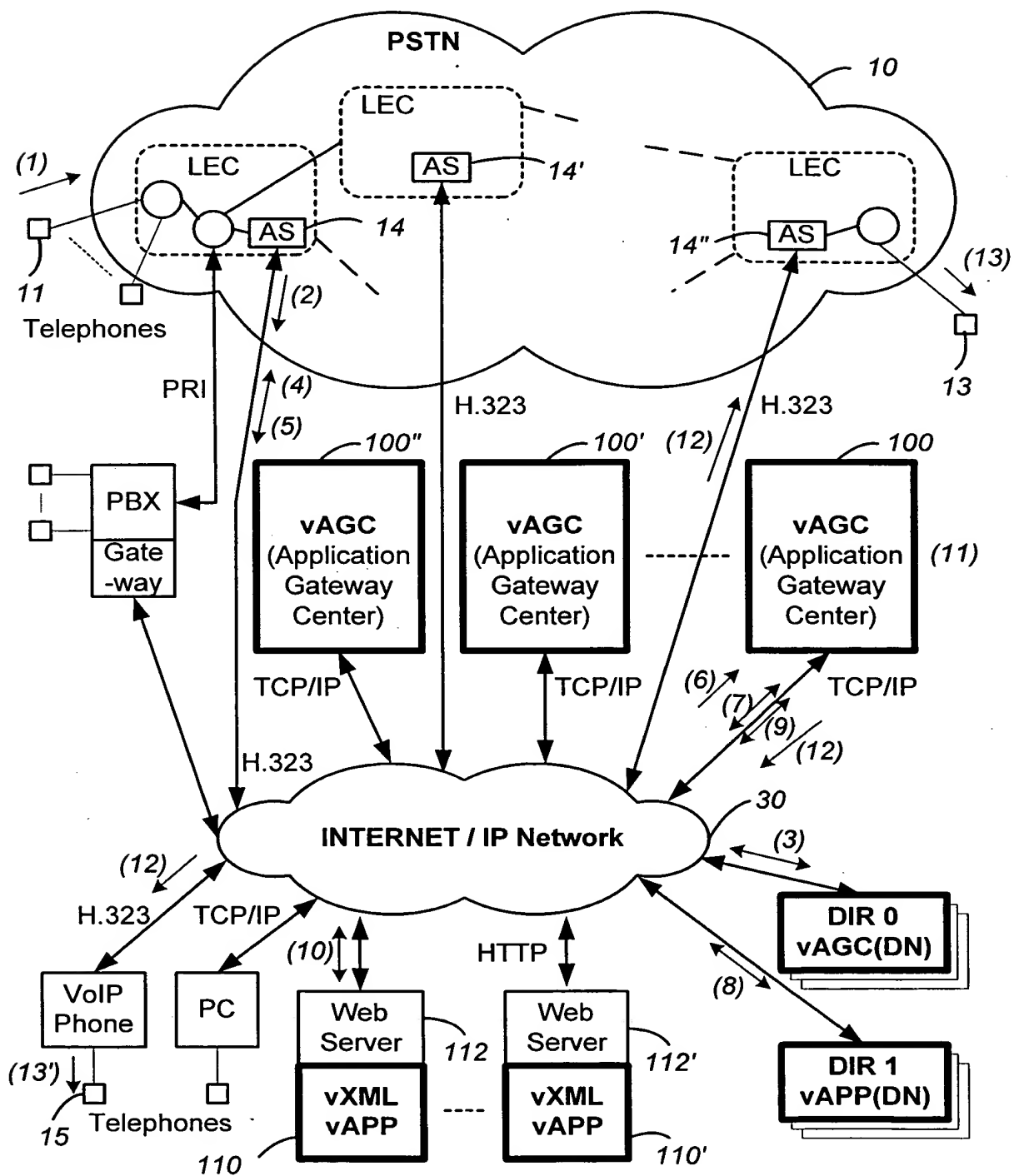


**CALL PROCESSING**



**FIG. 3**

00000-2019-0900



**FIG. 4A**

```

graph TD
    S1["(1) A new call to a dialed number (DN) is made at a local exchange"] --> S2["(2) New call is routed to an Internet Access Server (AS)  
AS converts new call to VoIP (H.323)"]
    S2 --> S3["(3) (4) AS looks up address of a destination vAGC (Application Gateway Center) from a directory (DIR 1)"]
    S3 --> S4["(5) AS directs New call to vAGC"]
    S4 --> S5["(6) vAGC initiates a 1st session for new call"]
    S5 --> S6["(7) (8) vAGC looks up URL for the application (vAPP) associated with the DN"]
    S6 --> S7["(9) (10) vAGC uses the URL to retrieve the XML scripts of the vAPP"]
    S7 --> S8["(11) vAGC processes New call according to retrieved XML scripts"]
    S8 --> S9["(9) (10) vAGC retrieves other media files from URLs specified by XML scripts"]
    S9 -.-> S10["(12) vAGC initiates a 2nd session with the destination PSTN node"]
    S9 -.-> S11["(12) vAGC initiates a 2nd session with the destination Internet node"]
    S9 -.-> S12["(12) vAGC interacts with other HTML applications or other backend processes to execute on-line transactions"]
    S10 --> S13["(13) vAGC conferences 1st and 2nd sessions, thereby effectively routing new call to destination node"]
    S11 --> S13_1["(13') vAGC conferences 1st and 2nd sessions, thereby effectively routing new call to destination node"]

```

The flowchart illustrates the process of routing a new call to a destination node via an Internet Access Server (AS) and an Application Gateway Center (vAGC). The process is divided into two main phases: initial routing and session establishment.

**Phase 1: Initial Routing and Session Establishment**

- (1) A new call to a dialed number (DN) is made at a local exchange.
- (2) New call is routed to an Internet Access Server (AS). The AS converts the new call to VoIP (H.323).
- (3) (4) AS looks up address of a destination vAGC (Application Gateway Center) from a directory (DIR 1).
- (5) AS directs New call to vAGC.
- (6) vAGC initiates a 1st session for new call.

**Phase 2: Application Retrieval and Session Establishment**

- (7) (8) vAGC looks up URL for the application (vAPP) associated with the DN.
- (9) (10) vAGC uses the URL to retrieve the XML scripts of the vAPP.
- (11) vAGC processes New call according to retrieved XML scripts.
- (9) (10) vAGC retrieves other media files from URLs specified by XML scripts.

**Phase 3: Session Establishment and Call Routing**

From the retrieval of media files, the process branches into three parallel paths, each leading to a second session:

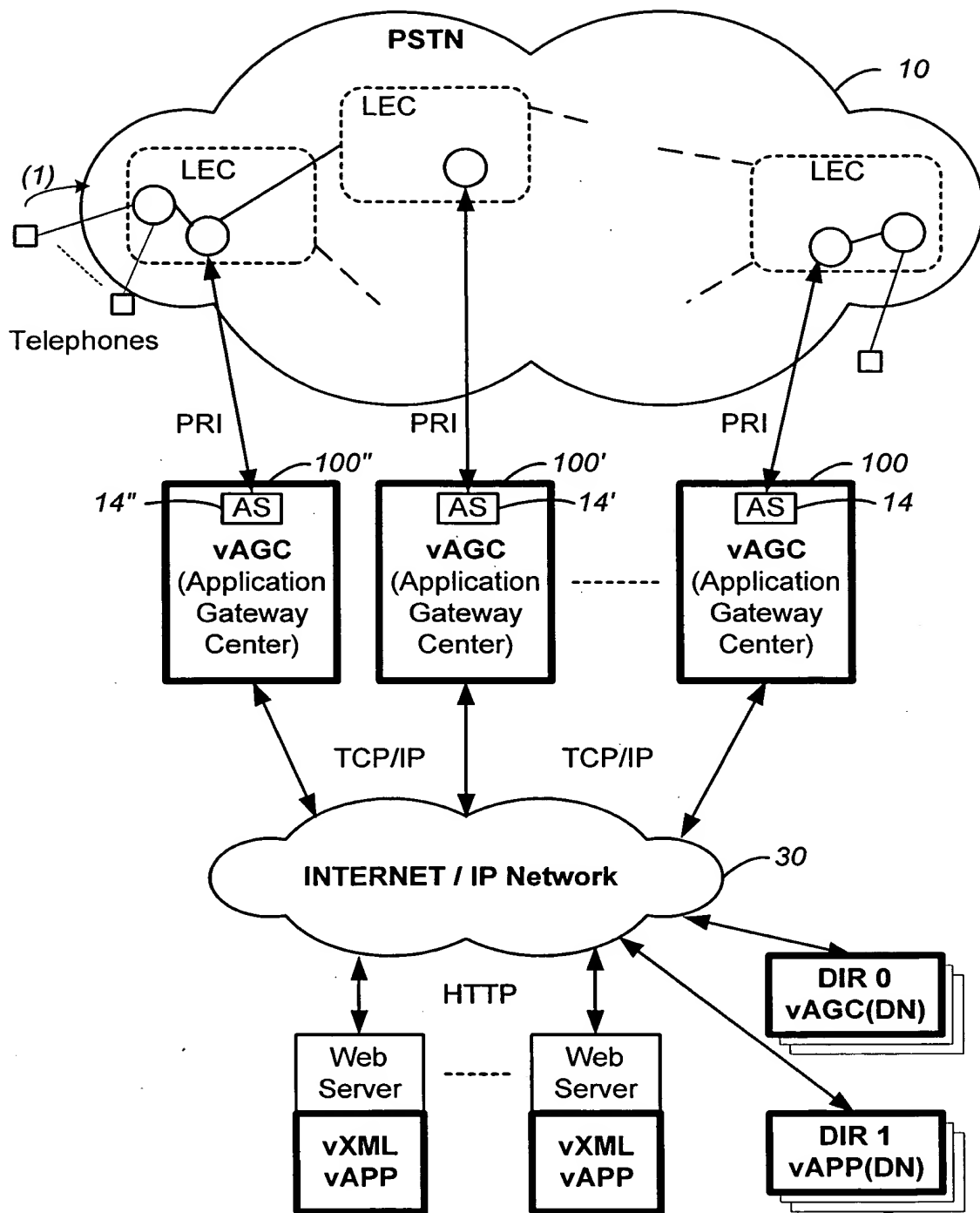
- Path 1:** vAGC initiates a 2nd session with the destination PSTN node (12).
- Path 2:** vAGC initiates a 2nd session with the destination Internet node (12).
- Path 3:** vAGC interacts with other HTML applications or other backend processes to execute on-line transactions (12).

**Phase 4: Call Conferencing and Routing**

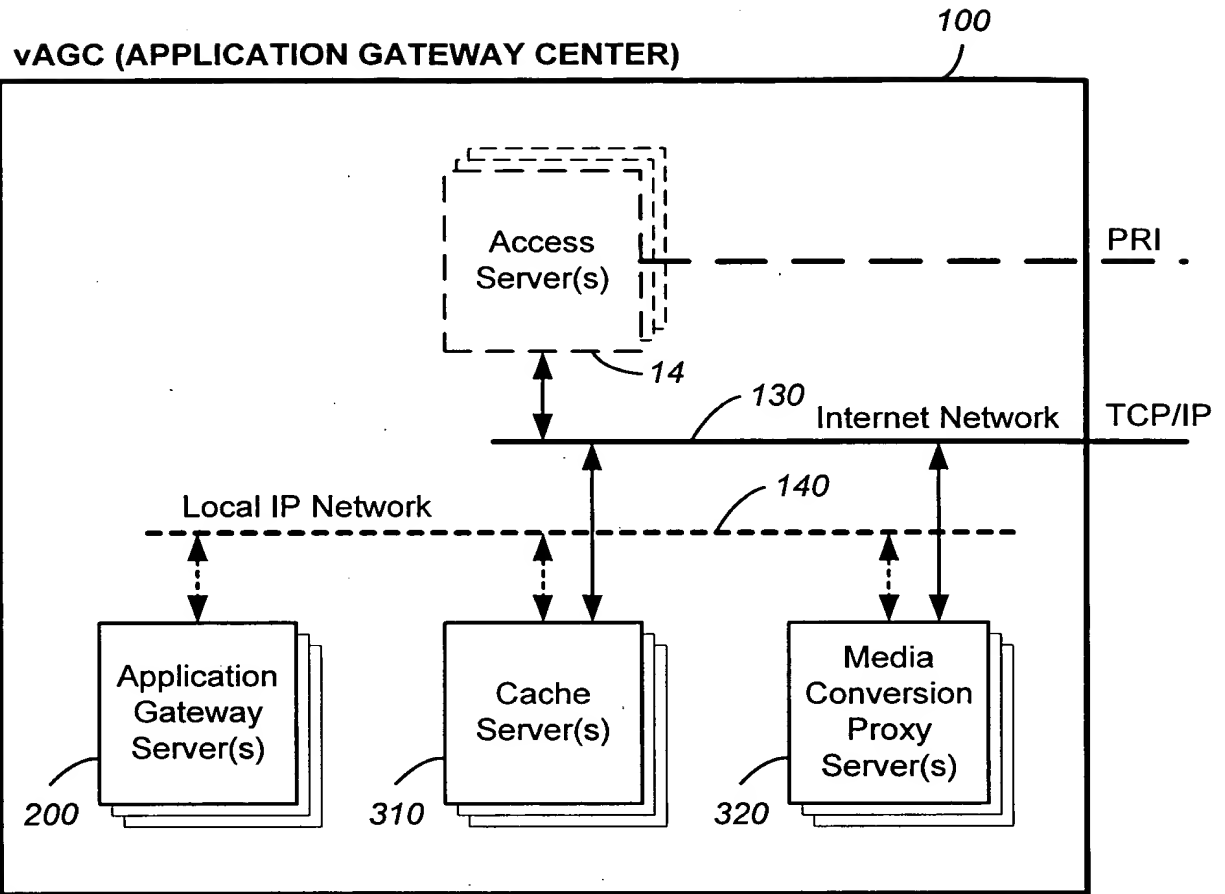
The final step involves conferencing the first and second sessions to route the call to the destination node:

- (13) vAGC conferences 1st and 2nd sessions, thereby effectively routing new call to destination node.
- (13') vAGC conferences 1st and 2nd sessions, thereby effectively routing new call to destination node.

**FIG. 4B**



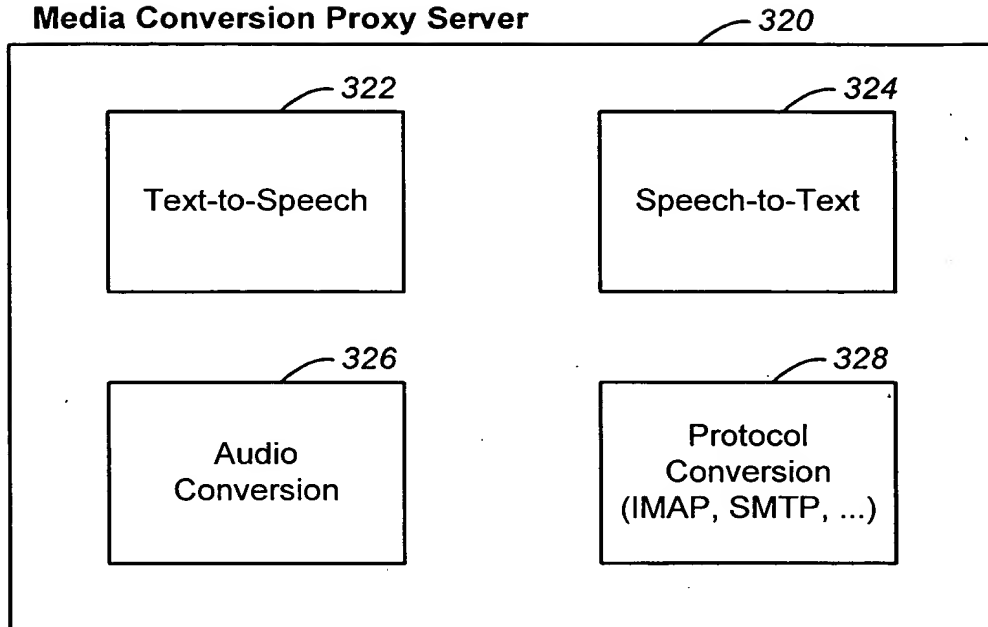
**FIG. 5**



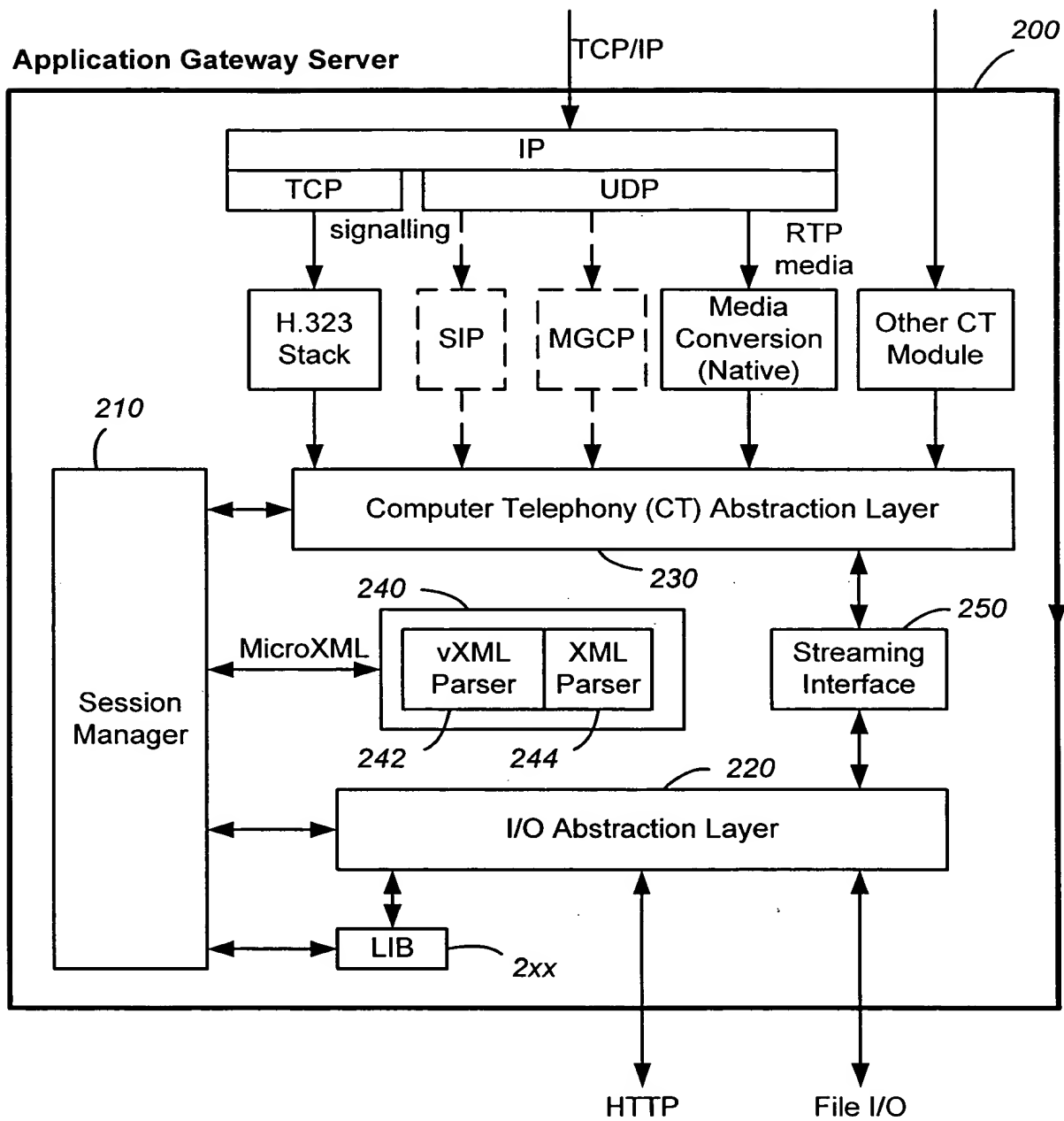
**FIG. 6**



**Media Conversion Proxy Server**



**FIG. 7**



**FIG. 8**

**FIG. 9**